

**IN THE CLAIMS:**

Please amend claims 2, 4-13, 15-19, 21-27, 33, and 34 as follows.

1. (Cancelled)
2. (Currently Amended) A—The telecommunications system according to claim 15, wherein the signals are indicative of the time taken for the signals to arrive at the third and fourth locations from the first and second base stations.
3. (Cancelled)
4. (Currently Amended) AThe telecommunications system according to claim 15, wherein the mobile station is moved between a plurality of locations including said third and fourth locations and is arranged to receive a pair of signals when in each of the plurality of locations, the said pair of signals comprising a signal from the first base station and a signal from the second base station.
5. (Currently Amended) AThe telecommunications system according to claim 4, wherein two of said pairs of signals received by the mobile station are together useable to calculate a range of possible locations of the second base station.

6. (Currently Amended) A The telecommunications system according to claim 5, wherein the range of possible locations is in the form of a hyperbola in the X-Y plane in which the second base station is located, the said hyperbola running through substantially the location of the second base station.

7. (Currently Amended) A The telecommunications system according to claim 5, wherein in each of the plurality of locations the mobile station receives pairs of signals which differ from those pairs of signals received when the mobile station is in others of the plurality of locations and the said different pairs of signals are together usable to calculate different ranges of possible locations of the second base station.

8. (Currently Amended) A The telecommunications system according to claim 7, wherein the different ranges of possible locations substantially coincide at a single common location that is substantially the location of the second base station.

9. (Currently Amended) A The telecommunications system according to claim 4, wherein, in any given location of the mobile station, the pair of signals received by the mobile station is the same pair of signals that is received by the mobile station at another location.

10. (Currently Amended) ~~A~~ The telecommunications system according to claim 4, wherein in any given location of the mobile station, the pair of signals received by the mobile station is a different pair of signals from the pair of signals received by the mobile station at another location.

11. (Currently Amended) ~~A~~ The telecommunications system according to claim 4, wherein the plurality of locations is three locations.

12. (Currently Amended) ~~A~~ The telecommunications system according to claim 15, wherein the signals received by the mobile station are received in response to signals sent to the first and second base stations by the mobile station.

13. (Currently Amended) ~~A~~ The telecommunications system according to claim 2, wherein the said signals are further indicative of their quality or accuracy.

14. (Cancelled)

15. (Currently Amended) A telecommunications system comprising:  
a first base station unit situated at a first, known location;  
a second base station unit situated at a second, unknown location;

a mobile station ~~arranged~~ configured to receive signals at a third, known location from the first and second ~~transmitter unit~~ base stations; and, once the mobile station has moved, to receive signals at a fourth known location from the first and second base stations, wherein the said ~~signal~~ signals received at the third and fourth locations are usable to ascertain the location of the second base station.

16. (Currently Amended) A The telecommunications system according to claim 15, wherein the mobile station is arranged to act as a first receiver during a first period of time and as a second receiver during a second separate period of time.

17. (Currently Amended) A The telecommunications system according to claim 15, wherein the mobile station is a mobile telephone.

18. (Currently Amended) A The telecommunications system according to claim 17, wherein the said mobile telephone supports Enhanced Observed Time Difference (E-OTD) location method and Global Positioning System (GPS) location method, or Observed Time Difference Of Arrival (OTDOA) location method and Global Positioning System (GPS) location method.

19. (Currently Amended) A The telecommunications system according to claim 15, wherein the first and second base stations are cellular base stations.

20. (Cancelled)

21. (Currently Amended) ~~A~~The telecommunications system according to claim 15, wherein the second base station is in a fixed location.

22. (Currently Amended) ~~A~~The telecommunications system according to claim 15, further comprising a calculation unit arranged to use the signals received by the mobile station or any values derived from the said signals to ascertain the location of the second base station.

23. (Currently Amended) ~~A~~The telecommunications system according to claim 22, wherein the calculation unit is arranged to take account of the indication of quality or accuracy when using the signals received by the mobile station.

24. (Currently Amended) ~~A~~The telecommunications system according to claim 22, located within a telecommunications network, wherein the calculation unit is a network management unit.

25. (Currently Amended) ~~A~~The telecommunications system according to claim 22, located within a telecommunications network, wherein the calculation unit is a ~~S~~serving M~~m~~obile L~~l~~ocation C~~c~~entre.

26. (Currently Amended) A telecommunications system comprising:  
a first base station situated at a first, known location;  
a second base station situated at a second, unknown location;  
a mobile station ~~arranged~~configured to receive signals at a third, known location from the first and second ~~transmitter unit~~base station; and, once the mobile station has moved, to receive signals at a fourth known location from the first and second base stations, wherein the signals received at the third and fourth locations are usable to ascertain the location of the second base station; and,

a calculation unit ~~arranged~~configured to use the signals received at the third and fourth locations or any values derived from the signals to ascertain the location of the second base station; and,

wherein the calculation unit is ~~arranged~~configured to verify the accuracy of the ascertained location of the second base station by comparing it with location information of the second base station obtained from other sources.

27. (Currently Amended) A telecommunications system, comprising:  
a first base station situated at a first, known location;

a second base station situated at a second, unknown location; and

a mobile station ~~arranged~~ configured to receive signals at a third, known location from the first and second ~~transmitter-unit~~ base station; and, once the mobile station has moved, to receive signals at a fourth known location from the first and second base stations, wherein the said ~~signal~~ signals received at the third and fourth locations are usable to ascertain the location of the second base station; and

wherein the ascertained location of the second base station is usable to check the accuracy of identification information of the second base station obtained from other sources and thus identify the second base station.

28-29. (Cancelled)

30. (Previously Presented) A method of determining the location of a base station in a telecommunications system, the method comprising:

receiving signals at a mobile station situated at a first, known location from a first base station situated at a second, known location and from a second base station situated at a third, unknown location, and determining the time difference between the arrival times of a signal from the first base station and a signal from the second base station;

receiving signals at the mobile station situated at a fourth, known location from the first base station and from the second base station and determining the time

difference between the arrival times of a signal from the first base station and a signal from the second base station; and

using the time differences determined, to ascertain the location of the second base station.

31. (Previously Presented) A method of determining the location of a base station in a telecommunications system, the method comprising:

receiving signals at a mobile station situated at a first, known location from a first base station situated at a second, known location and from a second base station situated at a third, fixed, unknown location and determining the time difference between the arrival times of a signal from the first base station and a signal from the second base station;

receiving signals at the mobile station situated at a fourth, known location from the said first base station and from the said second base station and determining the time difference between the arrival times of a signal from the first base station and a signal from the second base station; and

using the time differences determined to ascertain the location of the second base station.

32. (Cancelled)



33. (Currently Amended) A calculation unit for use in a telecommunications system, comprising:

a first base station situated at a first, known location;

a second base station situated at a second, unknown location; and

a mobile station ~~arranged~~ configured to receive signals at a third known location from the first and second base stations; and further ~~arranged~~ configured to determine the time difference between the arrival times of a signal from the first base station and a signal from the second base station;

wherein, once the mobile station has moved, it is ~~arranged~~ configured to receive signals at a fourth, known location from the first and second base stations, and further ~~arranged~~ configured to determine the time difference between the arrival time of a signal from the first base station and a signal from the second base station;

wherein the calculation unit is ~~arranged~~ configured to use the time differences between the arrival times of signals from the first and second base stations as determined at the third and fourth locations to ascertain the location of the second base station.

34. (Currently Amended) A ~~computer program embodied on a computer~~ readable medium encoded with a computer program for use in a telecommunications system, wherein the telecommunication system includes

a first base station situated at a first, known location;

a second base station situated at a second, unknown location; and

a mobile station-arranged to receive signals at a third, known location from the first and second base stations; and further arranged to determine the time difference between the arrival times of a signal from the first base station and a signal from the second base station;

wherein the mobile station is arranged to receive signals at a fourth, known location from the first and second base stations, and further arranged to determine the time difference between the arrival time of a signal from the first base station and a signal from the second base station;

the computer program is configured to use the time differences between the arrival times of signals from the first and second base stations as determined at the third and fourth locations to ascertain the location of the second base station.